resonance of the matching network and transmit coil, wherein the inverter transfers a higher energy level in the first period of time than in the second period of time.

21. The apparatus of claim **20**, wherein the controller reduces a power supply voltage of the inverter in the second period of time to a lower value than in the first period of time.

22. The apparatus of claim **20**, wherein the inverter has a first switching frequency during the first period of time and a second switching frequency during the second period of time, the first and second switching frequencies being different.

23. The apparatus of claim **22**, wherein the resonance has a resonant frequency, and the first switching frequency is closer than the second switching frequency to the resonant frequency.

24. The apparatus of claim **18**, wherein the controller is configured to determine a quality factor.

25. The apparatus of claim **24**, wherein the controller is configured to compare the quality factor to an acceptable quality factor for wireless power transmission.

26. The apparatus of claim **25**, wherein the controller is configured to compare the quality factor to a quality factor provided by a wireless power receiver via in-band or out-of-band communication.

* * * * *